

MULTIBAND ANTENNA USING WHIP HAVING INDEPENDENT POWER  
FEEDING IN WIRELESS TELECOMMUNICATION TERMINAL

Description

This application is a 371 of PCT/KR04/00749 Filed on 03/31/2004.

Technical Field

5

The present invention relates to a multi-band antenna using a whip having independent power feeding in a wireless telecommunication terminal: and, more particularly, to a multi-band antenna which can increase a radiation efficiency of an electromagnetic wave signal radiated from an antenna embedded in the wireless telecommunication terminal by the electromagnetic wave signal radiated from the whip antenna and extending a bandwidth by using a whip having independent power feeding in a wireless telecommunication terminal and separately feeding a whip antenna drawn out of a wireless telecommunication terminal.

Background Art

20 The wireless telecommunication terminal mentioned in the present invention is a terminal that can be carried by a user portably and capable of wireless communication, such as Personal Communication Service (PCS), Personal Digital Assistant (PDA), Smart Phone, International Mobile  
25 Telecommunication-2000 (IMT-2000) and a wireless Local Area Network (LAN) terminal. The embodiments of the present invention will be described hereinafter by taking an example of a folder-type wireless telecommunication terminal. A value  $\lambda_0$  is the wave length of an  
30 electromagnetic wave signal of a resonance frequency band radiated from each radiator.

Recently, wireless telecommunication terminals become miniaturized, as an integration technology of high frequency devices and a wireless telecommunication  
35 technology develop.